**PCIE-1680**
**PCI-1680U**

**2-Port CAN Bus PCIE Card with Isolation Protection**

**2-Port CAN Bus Universal PCI Card with Isolation Protection**

---

### Features
- PCIE bus specification 1.1 compliant
- 2 x Independent CAN ports
- Up to 1 Mbps transmission speeds
- 16 MHz CAN controller frequency
- Optical isolation protection of 2,500 V
- I/O address automatically assigned by PCI PnP
- Transmit/Receive status LED indicators
- Windows DLL library and examples included
- Supports Windows CE5/CE6/XP/7/8.1/10 drivers and utilities
- Supports Linux 2.4.xx/2.6.xx, QNX 6.5, and Intel® x86 architecture

---

### Introduction
PCI-1680 and PCIE-1680 are purpose-built communication cards that ensure CAN connectivity. With 2 independent CAN controllers built in, PCI-1680 and PCIE-1680 enable bus arbitration and error detection with automatic transmission repetition, drastically reducing data loss and ensuring system reliability. Additionally, both PCI-1680 and PCIE-1680 operate at baud rates of up to 1 Mbps.

### Specifications

#### General
- **Bus Type**: PCI Express V1.0/Universal PCI
- **Certification**: CE, FCC
- **Connectors**: 2 x DB9, male
  - 2 x 10 pin box wafer (optional)
- **Ports**: 2
- **Power Consumption**: 3.3 V @ 600 mA (typical)

#### Communication
- **CAN Controller**: NXP SJA-1000
- **CAN Transceiver**: NXP TJA1051T
- **Signal Support**: CAN_H, CAN_L
- **Protocol**: CAN 2.0 A/B
- **Data Transfer Rate**: Programmable up to 1 Mbps
- **CAN Frequency**: 16 MHz

#### Protection
- **Isolation Protection**: 2,500 V

#### Mechanical and Environmental
- **Operating Temperature**: 0 – 70 °C (32 – 158 °F) (refer to IEC 60068-2-1, 2)
- **Storage Temperature**: -40 – 85 °C (-40 – 185 °F)
- **Operating Humidity**: 5 – 95% relative humidity, non-condensing
- **Dimensions (L x H)**: 168 x 111 mm (6.6” x 4.4”)

---

### Ordering Information
- **PCIE-1680-AE**: 2-port CAN bus PCIE card with isolation protection
- **PCI-1680U-BE**: 2-port CAN bus Universal PCI card with isolation protection

### Accessories
- **OPT1-DB9E-AE**: DB9 to 10-pin wiring board